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10/549,299	09/15/2005	Guillaume Bichot	PU030087	3592
24498 7590 11/10/2010 Robert D. Shedd, Patent Operations THOMSON Licensing LLC P.O. Box 5312 Princeton, NJ 08543-5312				
EXAMINER				
NGUYEN, STEVEN C				
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/549,299

**Applicant(s)**

BICHOT, GUILLAUME

**Examiner**

STEVEN C. NGUYEN

**Art Unit**

2443

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 24 August 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) 10-17 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-9 and 18-27 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SG/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Interval Patent Application
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

1. This action is responsive to the Appeal Brief filed on 08/24/2010.
2. **Claims 1-9, 18-27** are pending in this application.
3. **Claims 10-17** have been previously withdrawn.

***Reopening of Prosecution After Appeal Brief or Reply Brief***

4. In view of the Appeal Brief filed on 08/24/2010, PROSECUTION IS HEREBY REOPENED. New grounds of rejection are set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

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***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

**Claim 27** elements, "means for ...," are means (or step) plus function limitations that invoke 35 U.S.C. 112, sixth paragraph. The written description only implicitly or inherently sets forth the corresponding structure, material, or acts that perform the claimed function. Pursuant to 37 CFR 1.75(d) and MPEP 608.01(o) and 2181:

Applicant is required to:

- (a) Amend the claim so that the claim limitation will no longer be a means (or step) plus function limitation under 35 U.S.C. 112, sixth paragraph; or
- (b) Amend the written description of the specification such that it expressly recites the corresponding structure, material, or acts that perform the claimed function and clearly links or associates the structure, material, or acts to the claimed function, without introducing any new matter (35 U.S.C. 132(a)); or
- (c) State on the record what the corresponding structure, material, or acts, which are implicitly or inherently set forth in the written description of the specification, perform the claimed function.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. **Claims 1-4, 18-22, 27**, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kadyk et al (US 2002/0157019) in view of Xu et al (US 6,151,628), hereinafter Kadyk and Xu.

6. **Regarding Claims 1, 18, 21, 27**, Kadyk disclosed:

a. A method for establishing a signaling connection between a client terminal and a communications network, the method comprising the steps of *(abstract)*;

b. establishing an authentication connection between the client terminal and the communications network *(Paragraph 54 states that the client is authenticated by the proxy)*;

c. transmitting an authentication message from the communications network to the client terminal *(Paragraph 54 states that the proxy issues an authenticate challenge and that client receives it)*;

d. establishing a signaling connection tunnel between the client terminal and the communications network for transferring control data *(Paragraph 53 states that the client requests a secure client proxy connection and the connection is established)*;

e. transmitting signaling information between the client terminal and the communications network via the control data signal connection tunnel *(Paragraph 54 states that the client sends proper authentication credentials to the proxy)*;

f. closing the authentication connection *(Paragraph 55 states that once the client is authenticated, the proxy forwards the request to the end server and a secure end to end connection directly to the server is established. The connection to*

*the proxy is now closed as the client has a direct tunnel to the server as Figure 4 shows*);

Kadyk did not explicitly disclose:

g. transmitting set-up parameters from the communications network to the client terminal;

h. establishing the control data signaling connection tunnel using the set-up parameters;

However, Xu disclosed:

i. transmitting set-up parameters from the communications network to the client terminal (*Column 11, Lines 40-49 state that the authentication server sends the client a message that includes identification of the tunneling protocol, tunneling server's IP address, and the port number of the tunneling server to receive the call*);

j. establishing the control data signaling connection tunnel using the set-up parameters (*Column 11, Lines 50-58 state that the client sends a request to connect to the tunneling server using the tunneling server's IP address*);

k. The utilization of the readily available transmitting set up parameters and establishing the tunnel using the parameters of Xu would have been obvious to one of ordinary skill in the art in view of the teachings of Kadyk since all the claimed elements were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions. *KSR Int'l Co. v. Teleflex, Inc.*, 550 U.S. 398 (2007). The combination would have yielded nothing more than predictable results to one of ordinary

skill in the art at the time of the invention, for example, to facilitate in creating a secure connection from the client to the server.

**7. Regarding Claim 2**, the limitations of claim 1 have been addressed. Kadyk did not explicitly disclose:

a. transmitting from the client terminal to the communications network acknowledgement of receipt of the set up parameters.

However, Xu disclosed:

b. transmitting from the client terminal to the communications network acknowledgement of receipt of the set up parameters (*Column 11, Lines 50-58 state that the client sends a request to connect to the tunneling server using the tunneling server's IP address. The client requesting a connection with the server using the server's IP address supplied by the authentication server is acknowledging that the client received the parameters*);

c. The utilization of the readily available acknowledgement of set up parameters of Xu would have been obvious to one of ordinary skill in the art in view of the teachings of Kadyk since all the claimed elements were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions. *KSR Int'l Co. v. Teleflex, Inc.*, 550 U.S. 398 (2007). The combination would have yielded nothing more than predictable results to one of ordinary skill in the art at the time of the invention, for example, to facilitate in creating a secure connection from the client to the server.

**8. Regarding Claim 3**, the limitations of claim 1 have been addressed. Kadyk disclosed:

a. wherein the control data signal connection tunnel is a dedicated signaling tunnel (*Paragraph 53 states that the tunnel created between the client and the proxy can be a TLS, L2TP, or any other secure protocol*).

**9. Regarding Claims 4, 22**, the limitations of claim 1 have been addressed. Kadyk did not explicitly disclose:

a. wherein the client terminal is a mobile terminal and the communications network is a 3G network.

However, Xu disclosed:

b. wherein the client terminal is a mobile terminal and the communications network is a 3G network (*Column 3, Lines 54-62 state that mobile terminals are used along with CDMA standards*);

c. The utilization of the readily available mobile terminals and a 3G network of Xu would have been obvious to one of ordinary skill in the art in view of the teachings of Kadyk since all the claimed elements were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions. *KSR Int'l Co. v. Teleflex, Inc.*, 550 U.S. 398 (2007). The combination would have yielded nothing more than predictable results to one of ordinary skill in the art at the time of the invention, for example, to allow users to be able to move freely.



**11. Regarding Claim 19**, the limitations of claim 18 have been addressed. Kadyk disclosed:

a. wherein the step of closing said authentication connection is performed after said step of transmitting control information between said client terminal and said communications network via said control data signaling connection tunnel *(Paragraph 55 states that once the client is authenticated, the proxy forwards the request to the end server and a secure end to end connection directly to the server is established. The connection to the proxy is now closed as the client has a direct tunnel to the server as Figure 4 shows).*

**12. Regarding Claim 20**, the limitations of claim 18 have been addressed. Kadyk did not explicitly disclose:

a. wherein said steps of establishing an authentication connection and transmitting control information are performed by way of a wireless access point.

However, Xu disclosed:

b. wherein said steps of establishing an authentication connection and transmitting control information are performed by way of a wireless access point *(Column 3, Lines 54-64 states that the mobile devices communicate to the network via the wireless modem);*

c. The utilization of the readily available wireless access point of Xu would have been obvious to one of ordinary skill in the art in view of the teachings of Kadyk since all the claimed elements were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in

their respective functions. *KSR Int'l Co. v. Teleflex, Inc.*, 550 U.S. 398 (2007). The combination would have yielded nothing more than predictable results to one of ordinary skill in the art at the time of the invention, for example, to allow users to be able to move freely.

**13. Claims 5-7, 9, 23-26**, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kadyk in view of Xu and Ahmavaara (cited in previous actions).

**14. Regarding Claim 5**, the limitations of claim 1 have been addressed. Kadyk disclosed:

a. establishing an authentication connection between the client terminal and the communications network is performed by way of a path (*Paragraph 54 states that the client is authenticated by the proxy*);

Kadyk did not explicitly disclose:

b. including a wireless network which complies with IEEE 802.11 standards.

However, Ahmavaara disclosed:

c. including a wireless network which complies with IEEE 802.11 standards (*Paragraph 42 states that the UE is connected via a wireless connection based on IEEE 802.1x WLAN protocol*);

d. The utilization of the readily available wireless network that complies to IEEE 802.11 standards of Ahmavaara would have been obvious to one of

ordinary skill in the art in view of the teachings of Kadyk since all the claimed elements were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions. *KSR Int'l Co. v. Teleflex, Inc.*, 550 U.S. 398 (2007). The combination would have yielded nothing more than predictable results to one of ordinary skill in the art at the time of the invention, for example, to allow users to be able to move freely.

**15. Regarding Claims 6, 24,** the limitations of claim 1 have been addressed. Kadyk did not explicitly disclose:

a. wherein the step of establishing an authentication connection between the client terminal and the communications network includes the steps of establishing extended authentication protocol over local area network and DIAMETER connections;

However, Ahmavaara disclosed:

b. wherein the step of establishing an authentication connection between the client terminal and the communications network includes the steps of establishing extended authentication protocol over local area network and DIAMETER connections (*Paragraphs 42-43 state that a IEEE 802.1x WLAN is utilized. Due to this, the encapsulation of EAP messages is EAPOL. Paragraph 22 states that the invention can utilize the Diameter protocol*);

c. The utilization of the readily available establishing EAPOL and DIAMETER connections of Ahmavaara would have been obvious to one of ordinary skill in the art in view of the teachings of Kadyk since all the claimed elements were known

in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions. *KSR Int'l Co. v. Teleflex, Inc.*, 550 U.S. 398 (2007). The combination would have yielded nothing more than predictable results to one of ordinary skill in the art at the time of the invention, for example, to allow wireless authentications.

**16. Regarding Claims 7, 23, 25, 26**, the limitations of claim 1 have been addressed. Kadyk did not explicitly disclose:

a. wherein the control data signal connection tunnel is a general packet radio services (GPRS) tunneling protocol (GTP) tunnel, and the step of transmitting set-up parameters includes the step of transmitting at least one of an internet protocol address and a tunnel identification.

However, Ahmavaara disclosed:

b. wherein the control data signal connection tunnel is a general packet radio services (GPRS) tunneling protocol (GTP) tunnel (*Paragraph 93 states that the GPRS service is used via the WLAN*);

c. The utilization of the readily available GPRS tunneling protocol GTP tunnel of Ahmavaara would have been obvious to one of ordinary skill in the art in view of the teachings of Kadyk since all the claimed elements were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions. *KSR Int'l Co. v. Teleflex, Inc.*, 550 U.S. 398 (2007). The combination would have yielded nothing more than predictable

results to one of ordinary skill in the art at the time of the invention, for example, to efficiently use the radio spectrum.

Xu disclosed:

d. transmitting set-up parameters includes the step of transmitting at least one of an internet protocol address and a tunnel identification (*Column 11, Lines 40-49 state that the authentication server sends the client a message that includes identification of the tunneling protocol, tunneling server's IP address, and the port number of the tunneling server to receive the call*);

e. The utilization of the readily available transmitting set up parameters that includes an IP address and tunnel identification of Xu would have been obvious to one of ordinary skill in the art in view of the teachings of Kadyk since all the claimed elements were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions. *KSR Int'l Co. v. Teleflex, Inc.*, 550 U.S. 398 (2007). The combination would have yielded nothing more than predictable results to one of ordinary skill in the art at the time of the invention, for example, to facilitate in creating a secure connection from the client to the server.

**16. Regarding Claim 9**, the limitations of claim 1 have been addressed. Kadyk did not explicitly disclose:

a. wherein the control data signal connection tunnel is a dedicated general packet radio services tunneling protocol tunnel, and the step of transmitting set-

up parameters includes the step of transmitting at least one of an internet protocol address and a tunnel identification.

However, Ahmavaara disclosed:

b. wherein the control data signal connection tunnel is a dedicated general packet radio services tunneling protocol tunnel (*Paragraph 93 states that the GPRS service is used via the WLAN*);

c. The utilization of the readily available GPRS tunneling protocol GTP tunnel of Ahmavaara would have been obvious to one of ordinary skill in the art in view of the teachings of Kadyk since all the claimed elements were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions. *KSR Int'l Co. v. Teleflex, Inc.*, 550 U.S. 398 (2007). The combination would have yielded nothing more than predictable results to one of ordinary skill in the art at the time of the invention, for example, to efficiently use the radio spectrum.

Xu disclosed:

d. transmitting set-up parameters includes the step of transmitting at least one of an internet protocol address and a tunnel identification (*Column 11, Lines 40-49 state that the authentication server sends the client a message that includes identification of the tunneling protocol, tunneling server's IP address, and the port number of the tunneling server to receive the call*);

e. The utilization of the readily available transmitting set up parameters that includes an IP address and tunnel identification of Xu would have been obvious to one of ordinary skill in the art in view of the teachings of Kadyk since all the claimed elements were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions. *KSR Int'l Co. v. Teleflex, Inc.*, 550 U.S. 398 (2007). The combination would have yielded nothing more than predictable results to one of ordinary skill in the art at the time of the invention, for example, to facilitate in creating a secure connection from the client to the server.

**17. Claim 8** is rejected under 35 U.S.C. 103(a) as being unpatentable over Kadyk in view of Xu, Ahmavaara, and Lantto (cited in previous actions).

**18. Regarding Claim 8**, the limitations of claim 7 have been addressed. Kadyk did not explicitly disclose:

a. transmitting set up parameters includes the step of transmitting quality of service parameters.

However, Lantto disclosed:

b. transmitting set up parameters includes the step of transmitting quality of service parameters (*Paragraph 128 states that parameters that are transmitted include PDP type, Access point name, compression options, IP address, and quality of service options*).

c. The utilization of the readily available transmitting of quality of service parameters of Lantto would have been obvious to one of ordinary skill in the art in view of the teachings of Kadyk since all the claimed elements were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions. *KSR Int'l Co. v. Teleflex, Inc.*, 550 U.S. 398 (2007). The combination would have yielded nothing more than predictable results to one of ordinary skill in the art at the time of the invention, for example, to ensure data is sent in a timely manner.

### ***Response to Arguments***

19. Applicant's arguments with respect to **claims 1-9, 18-27** have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to STEVEN C. NGUYEN whose telephone number is (571)270-5663. The examiner can normally be reached on Monday through Thursday with alternating Friday 7:30AM - 5:00PM, EST.



If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tonia Dollinger can be reached on (571) 272-4170. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/S.C.N./  
Examiner, Art Unit 2443  
11/03/2010

/Tonia LM Dollinger/  
Supervisory Patent Examiner, Art Unit 2443